



# OHIO DEPARTMENT OF TRANSPORTATION

John R. Kasich, Governor

Jerry Wray, Director

District 2

317 East Poe Rd., Bowling Green, OH 43402-1330

419-353-8131

[transportation.ohio.gov](http://transportation.ohio.gov)

Dear Permittee:

Attached is your permit to work within the State's Right of Way. The provisions contained in the permit should be reviewed carefully, and must be followed. On the face copy of your permit is your ODOT contact person, who must be contacted at least 24 hours in advance of starting any work.

All maintenance of traffic control will need to meet or exceed those listed in the Temporary Traffic Control Manual, the latest edition. If you're planning to have a contractor perform this work, they must have a copy of this permit on site at all times while work is being performed and fully understand the provisions that apply.

Should any unforeseen circumstances delay you from completing your work, you can file for a time extension. This requests needs to be in writing and submitted in advance of your permit's expiration date. In addition the following information needs to be included, Permit Number, County, Route and Section and when your work will be completed.

Please submit permit extensions to the Office of Permits, 317 East Poe Road, Bowling Green, Ohio 43402 prior to the expiration date.

Please feel free to contact the Permit Office @ (419) 373-4301 or by e-mail @ [michele.schuette@dot.state.oh.us](mailto:michele.schuette@dot.state.oh.us)

If you have any questions concerning your permit or its provisions.

Sincerely,

*Michele A Schuette*

Michele A Schuette  
Permit Tech, D02  
Office of Planning and Engineering

**Excellence in Government**

ODOT is an Equal Opportunity Employer and Provider of Services

Permit Number: 0202872017  
Work Order

County: OTTAWA  
Route: 2 Section 28.37  
PID: \_\_\_\_\_

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
PERMIT  
District 2

Subject to all terms, conditions, and restrictions printed or written below and on the reverse side hereof,  
permission is hereby granted to:

**Construction Contact:**

George Billerjahn  
BGSU Biological Science Dept

Bowling Green, OH 43403

**TO:** Attach a acoustic flow meter on the Edison Bridge. All work shall be performed per the attached approved documents. The flow meter is permitted to be in place for 90 days. No cutting of the pavement shall be permitted. Lane closures are not permitted. See attachments for additional requirements. Nothing in this permit waives any local, state or federal regulations or requirements that would mandate the permittee either comply with said laws and regulations or to seek a separate permit under those laws and regulations in the prosecution of the work permitted herein.

**LOCATION:** In OTTAWA   across /   X  along 2, miles or feet of On the Edison Bridge on the side of the road.

**NOTES:** The following notes apply: [01], [02], [03], [04], [05], [06], [07], [08], [09], [10], [11], [12], [13], [14], U-01, U-02, U-03, U-04, U-14, U-15, U-24, U-25, U-26, U-27, U-28, U-31.

**This permit or a copy is to be on site at all time while work is being performed in ODOT's right of way. And is to be shown with all attachments upon request to any Law Enforcement Personnel or Employees of the Department of Transportation.**

\_\_\_\_\_  
This permit is not a substitute for satisfying the rights of any other party that may have interest in the underlying fee.

Prior to any excavation in the highway right-of-way, the Ohio Utilities Protection Service (OUPS) must be contacted in accordance with ORC Section 3781.25 to 3781.32. OUPS can be reached at 1-800-362-2764. In addition you are also required to contact the Ohio Gas & Oil Producers Underground Protection Service, OGPUPS, at 1-800-925-0988.

No work shall be done under this permit until the party or parties to whom it is granted shall have communicated with and received instructions from: **MATTHEW LENKE, 419-373-7091**

You are also required to contact the above person upon completion of work.

This permit shall be void unless the work here in contemplated shall have been completed before **12/27/2017**

**Dated:** Tuesday, June 27, 2017

**c:** MATTHEW LENKE 419-373-7091  
File  
Lenke

**Attachments:** Cover Letter  
General provision sheet  
Note sheet U  
MOT - 1,3  
Application  
Plan

  
\_\_\_\_\_  
Director of Transportation  
Jerry Wrat

**General Provisions Applicable to All Permits**  
(Sections 5515.01 and 5515.02 of O.R.C.)


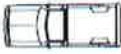





















- [01] This permit is not a substitute for satisfying the rights of any other party who may have an interest in the underlying fee.
- [02] The granting of this permit does not convey to the permittee or to the property served any rights, title, or interest in state highway rights-of-way or in the design or operation of the state highway; or in any way abridge the right of the Director of Transportation in his jurisdiction over state highways. If, in the process, of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof and be made as directed by the Director of Transportation.
- [03] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design, and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit.
- [04] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct such work and the permittee shall reimburse the Department for the costs.
- [05] The permittee shall hold harmless the Department of Transportation, the State of Ohio, and all of its representatives from all suits, actions, or claims of any character, brought on account of any injuries or damages sustained by any person or property in consequences of any neglect or on account of any act or omission as a result of the issuance of the permit.
- [06] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's action and its causes, and given an opportunity to correct the problem.
- [07] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed.
- [08] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Failure to comply will be cause for revocation or suspension of the permit. Any closure of lanes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.
- [09] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage.
- [10] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. MR 678 certifying that the permittee has complied with the terms of the permit.
- [11] Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the highway so as to interfere with the travel over the road.
- [12] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Administrative Code promulgated and enforced by the Public Utilities Commission of Ohio.
- [13] The permittee shall comply with the Air Pollution requirements of Rule 3745-17-08 of the Ohio Administrative Code promulgated and enforced by the Ohio Environmental Protection Agency.
- [14] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and his/her successors in interest. No change in ownership of the underlying property or of the facility owned by permittee shall in any way alter the permittee's obligations under this permit.

## Utility Permits

This permit is valid only within the limits of Right of Way of this State Route. Permits for that portion of your facilities located along county or Township Right of Way must be obtained from the appropriate authorities. **A copy of your permit is to be on site at all times while working.**

- U-01 To assure the proper installation, the Ohio Department of Transportation Office of Permits must be notified at (419) 373-4301, a minimum of 24 hours prior to any work being started. The proposed work will be performed at no cost to the State of Ohio or Federal Highway Administration. A copy of this permit is to be on site at all times while working. Deviations from the approved plans requires advance written notice prior to making said deviation.
- U-02 There is to be NO parking of equipment, service vehicles, erecting of lights, or placing of advertising devices within the State Highway Right of Way. Similarly no equipment, service vehicles, device or structures are permitted to overhang the State Highway.
- U-03 Written permission must be granted by ODOT in advance of any road closure and/or lane closures using jersey barriers or other traffic control devices. All closures must be open between December 1st and March 31st . Any approved closure will require a 15 day notice to the permit office.
- U-04 All work requiring men or vehicles to occupy traveled lanes, paved and/ or unpaved shoulders and areas beyond the pavement limits, shall fully comply with the Temporary Traffic Control Manual, edition 2012 and item 614 (Maintaining Traffic) in the Department of Transportation Construction and Material Specifications.
- U-14 The cutting of the pavement will not be permitted
- U-15 The use of the highway clear zone, traveled lanes, stabilized or un-stabilized berm's for the storage of construction materials or depositing of excavated material is NOT Permitted.
- U-24 Upon substantial completion of this project, all areas where vegetation has been disturbed and/ or destroyed will be fertilized, seeded, and mulched, in accordance with CMS item 659.
- U-25 All drainage tiles and/ or outlets, including field tile outlets, disturbed by this operation shall be restored to working order to the satisfaction of the owner.
- U-26 The permittee shall take any and all appropriate measures to limit soil erosion during and after construction authorized herein. As such he shall be fully accountable to the Ohio EPA, the Soil Conservation Service, and other appropriate agencies for any violation or disregard of the applicable governing standards and regulations related to the protection and conservation of soils that are affected by this permitted work. Ref-SS877
- U-27 All public and private property including highway fence that is disturbed by the contractor will be repaired to a condition equal to or better than the original condition, including sidewalks and driveways.
- U-28 The permittee, site inspectors or project supervisor shall not allow the removal, damage or re-erection of any ODOT signs along the proposed project route. Should any signs obstruct the proposed installation, the permittee or contractor shall notify ODOT no less than 72 hrs in advance allowing time to schedule the relocation of said obstruction. Contact is to be made at the following number, (419) 373-4414 or (419) 373-4483. The permittee shall further be responsible for any and all cost associated with the replacing, relocating of said signs.
- U-31 Failure to comply with the provisions stimulated in this permit will be just cause for immediate suspension of this permit.

**Table 6H-2. Meaning of Symbols on Typical Application Diagrams**

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of traffic		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaire		Work Vehicle
	Pavement markings that should be removed for a long-term project		

**Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams**

Road Type	Distance Between Signs (Feet) **		
	A	B	C
Urban (low speed) *	100	100	100
Urban (high speed) *	350	350	350
Rural	500	500	500
Expressway / Freeway	1,000	1,500	2,640

\* Speed category to be determined by highway agency.

\*\* The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

**Table 6H-4. Formulas for Determining Taper Lengths**

Speed (S)	Taper Length (L) in Feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet  
W = width of offset in feet  
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

## Notes for Figure 6H-1—Typical Application 1

### Work Beyond the Shoulder

#### Guidance:

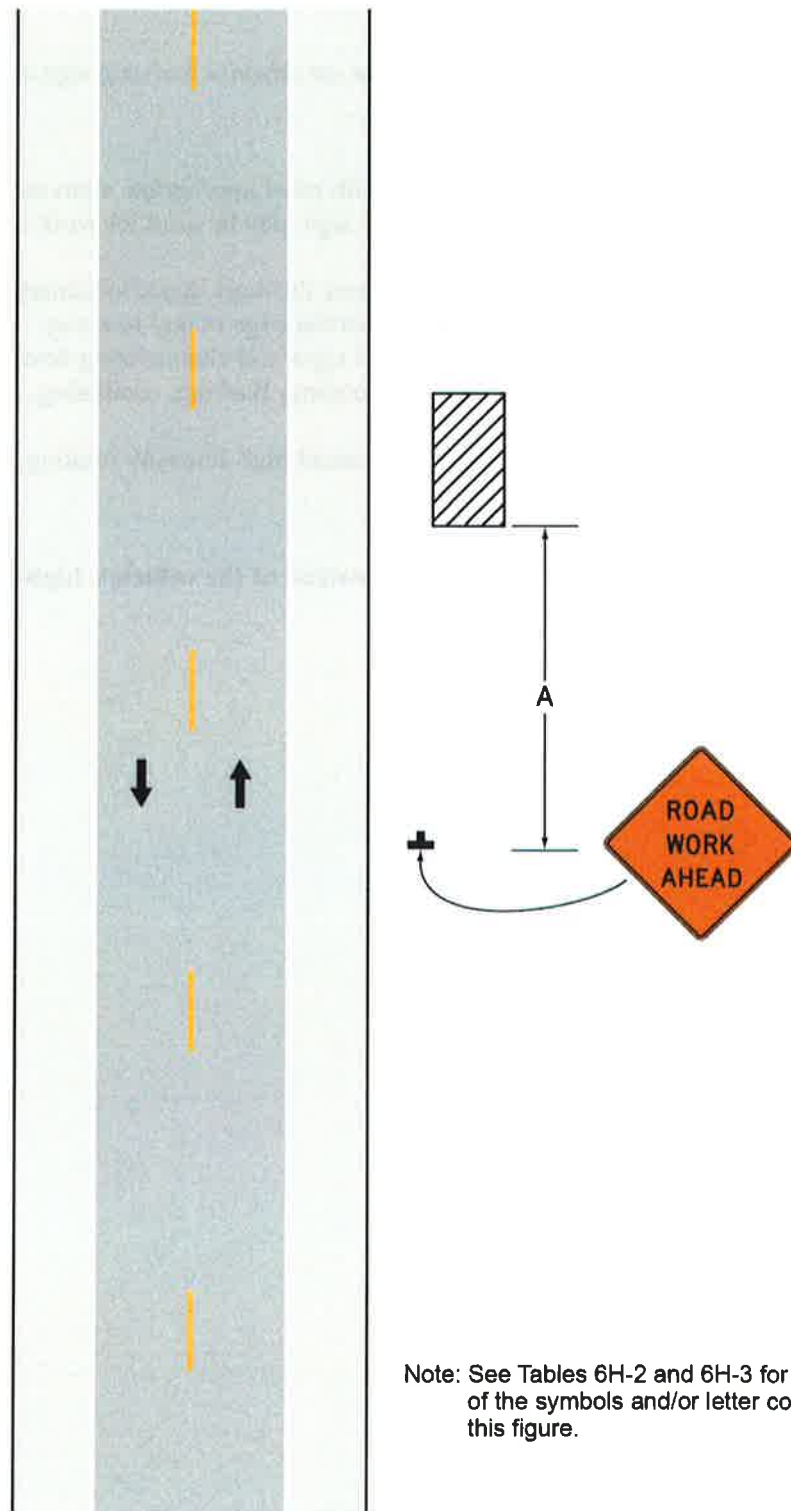
1. *If the work space is in the median of a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.*

#### Option:

2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 24 inches behind the curb, or 15 feet or more from the edge of any roadway.
4. For short-term, short-duration or mobile operation, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

#### Standard:

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

**Figure 6H-1. Work Beyond the Shoulder (TA-1)****Typical Application 1**



### Notes for Figure 6H-3—Typical Application 3

#### Work on the Shoulders

*Guidance:*

1. *A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.*

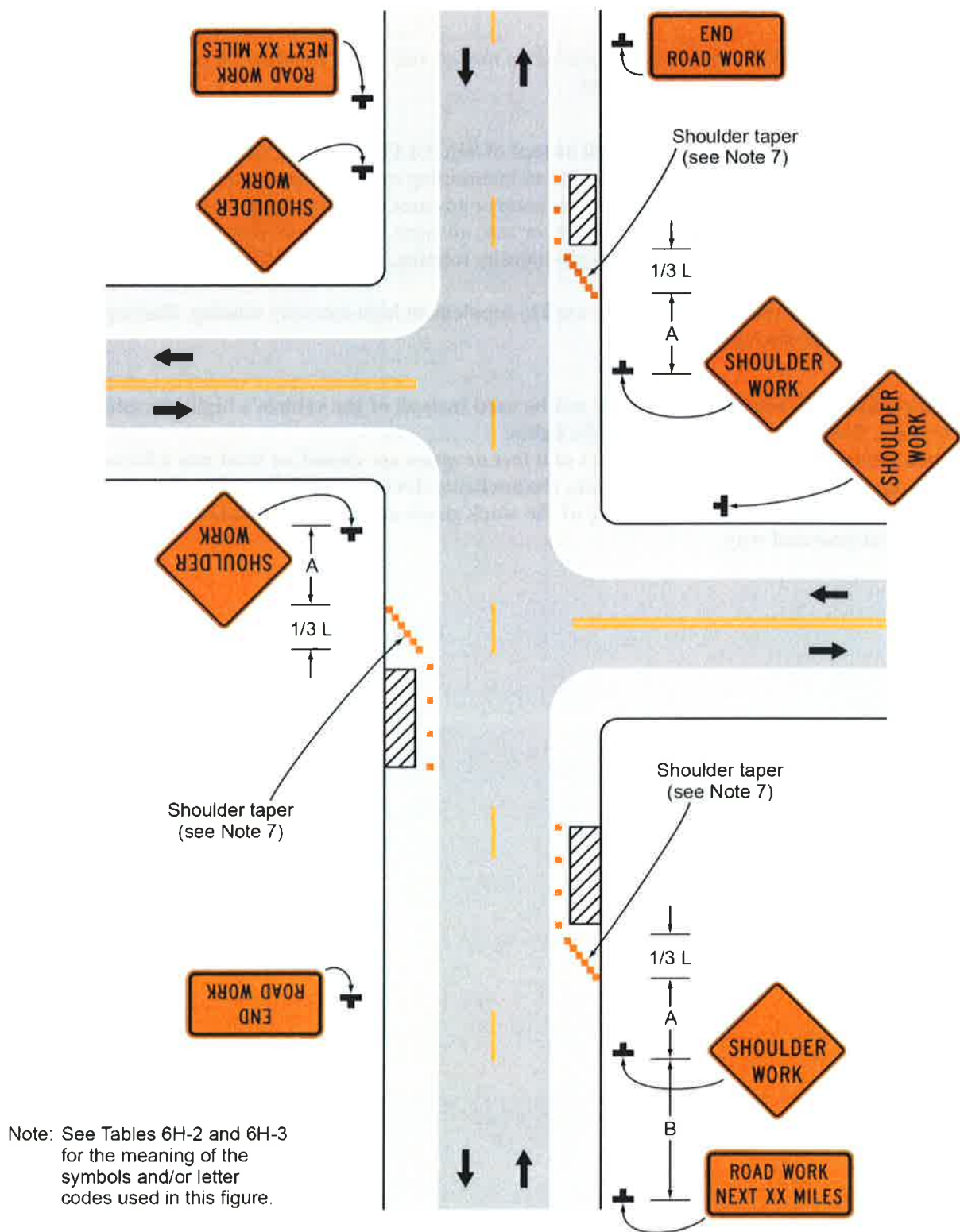
*Option:*

2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short-duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

**Standard:**

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**
7. **When paved shoulders having a width of 8 feet or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.**

Figure 6H-3. Work on the Shoulders (TA-3)



Typical Application 3

1. MR 505  
App No 6575

State of Ohio  
Department of Transportation  
Permit Application  
See Reverse side for additional requirements

Office Use Only	
County/	Jurisdiction <u>OTTAWA</u>
Rte <u>2</u>	LogPt <u>28.37</u>
AccCat _____	

[1] This form must be completed by the property owner or agents working for a utility company (if applicable). Application by contractor is unacceptable.

Name GEORGE S. BULLERJAHN  
Address DEPT. BIOLOGICAL SCIENCES, BGSU City BOWLING GREEN State OH  
Zip 43403 Phone (419) 372-8527 Other (Fax/e-mail) bullerj@bgsu.edu

[2] Type of Permit requested: \_\_\_\_\_ Commercial (See other side) \_\_\_\_\_ Residential ☒ Field \_\_\_\_\_ Utility \_\_\_\_\_ Drainage  
\_\_\_\_\_ Beautification (See other side) \_\_\_\_\_ Spraying, trimming, tree removal \_\_\_\_\_ Other

[3] Briefly describe work to be performed. (Attach plans and see Instructions.)

As a component of an ODNR-funded project, an acoustic flow meter is proposed to be attached to The Edison (Rte 2) Bridge. The flow meter will measure rates of water movements in the Bay. See Google Earth image attached

Traffic Plan N/A  
Additional details attached

[4] Location where work is to be performed. Give sufficient detail to locate the site accurately, such as the distance in miles or feet from a mile post or from some geographical feature such as an intersecting highway. Intersecting Highway: 42nd St.  
In Ottawa County (along, across) State Route 2, \_\_\_\_\_ miles or \_\_\_\_\_ feet  
North \_\_\_\_\_ East \_\_\_\_\_ West \_\_\_\_\_ South \_\_\_\_\_ of \_\_\_\_\_ on the North \_\_\_\_\_ East \_\_\_\_\_ West \_\_\_\_\_ South \_\_\_\_\_ side of the road.  
Work to commence on 1 July and will require 90 days to complete (length of deployment)

→ LAT/LON: 41°28'08.72"N, 82°51'11.85"W  
[5] Does the property owner own or have any interests in any adjacent property? \_\_\_\_\_ Yes ☒ No  
If yes, please describe. \_\_\_\_\_

[6] Prior to any excavation in the highway right-of-way, the Ohio Utilities Protection Service (OUPS) must be contacted in accordance with ORC Section 3781.25 to 3781.32. OUPS can be reached at 1-800-362-2764. A call must be made to OGPUPS at 1-800-925-0988.

[7] Open cutting of pavement shall not be permitted unless no reasonable alternate method is available. Written approval of the Ohio Department of Transportation District Office must be obtained.

[8] All work requiring men or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[9] I have received a copy of the policies and regulations pertaining to the permit for which I have applied. If a permit is subsequently issued to me by the Ohio Department of Transportation, I understand that the permit will state the terms and conditions for its use, and I agree to comply with all conditions and regulations stipulated on or attached to the permit. I also understand and agree that failure to comply fully with all conditions and regulations of the permit or any change in the use of the permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to an including removal of the installation at the permittee's expense.

SIGN and  
PRINT here

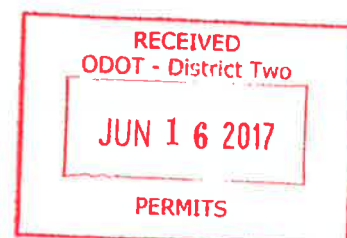
→ George S. Bullerjahn  
Signature of Property Owner or Agent for Owner  
Date 6/15/17 Day time Phone 419-372-8527

Office use only	
Date Received	<u>RECEIVED</u> <u>ODOT - District Two</u>
By	<u>JUN 16 2017</u>
Date Accepted	
By	<u>PERMITS</u>



Google earth

miles 2  
km 3





The acoustic flow meter will be attached to the South Wall of the central passge through the bridge, facing south. The meter, along with a battery pack (pictured below) will be bolted to a 1.5 x 6 ft. aluminum plate. The plate will be bolted to the wall via 4 bolts imbedded in the wooden wall structure. Two bolts will be at the top of the plate, 18 in above the water. Two blots will be at water level. The plate will allow the acoustic flow meter to be submerged at a depth of 4 feet.



A photo of the instruments is shown above. Note the dimensions of the items. The battery pack is on the left and the flow meter is on the right. The battery pack will be visible at water level.



